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Minimum DB seq length: 0
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Copyright (c) 1993 - 2000 Compugen Ltd.
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AAB63203 AAB63204 AAB75565 AAB75566 AAR99562 AAW66103 AAY44580 AAW44580 AAW02696 AAW02696	SUMMARIES
Gene 28 human secr Human secreted pro Gene 13 human secr Human secreted pro Human neurotensin Human nyzip protei G-protein coupled G-protein coupled Human neurotensin Amino acid sequenc	Description

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AAW19415 AAY54565 AAB97377	AAY69293 AAW19608	AAB68477	AAI 34147 AAB68479	AAY90673	AAE03636	AAE03635	AAB99199	AAB99180	AAY44642	AAY90638	AAB02854	AAB68478	AAB62652	AAY54145	AAB67804	AAB67805	AAG63366	AAY52992	AAE03634	AAB67802	AAE03629	AAG64297	AAG63353	AAB02830	AAY71296	AAB67803	AAB99186	AAY44641
A mouse growth hor Rat growth hormone	A canine growth hormone	Amino acid sequenc	Amino acid sequenc	∍	Rat G-protein coup		Rat FM-3. Rattus	Human G-protein co	growen			Ω	Long form of motil	Amino acid sequenc	Amino acid sequenc	Amino acid sequenc	Amino acid sequenc	Human neurotensin-	Rat G-protein coup	Amino acid sequenc	Human G-protein co	Human GTP-binding	Amino acid sequenc	Human G protein co	Human orphan G pro	Amino acid sequenc	Murine FM-3. Mus	growth h

ALIGNMENTS

RESULT

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AAB63203 ID AAB6 Human; secreted protein; diagnosis; immunosuppressive; antiarthritic; antipreumatic; antipreliferative; cytostatic; cardiant; vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial; virucide; fungicide; ophthalmological; gene therapy; autoimmune disease; neoplasm; rheumatoid arthritis; hyperproliferative disorder; cardiac arrest; cardiovascular disorder; cerebrovascular disorder; cerebrovascular disorder; cerebrovascular disorder; cerebrovascular disorder; cerebrovascular disorder; corneal infection; wound healing; skin aging; folder; corneal infection; wound healing; skin aging; Gene 28 human secreted protein homologous amino acid sequence #129 26-MAR-2001 AAB63203; AAB63203 standard; Protein; 167 (first entry) A

19-OCT-2000 WO200061629-A1 Homo sapiens.

food

additive;

preservative.

09-APR-1999; 99US-0128694. 20-JAN-2000; 2000US-0176931. 06-APR-2000; 2000WO-US09071.

(HUMA-) HUMAN GENOME SCI INC (ROSE/) ROSEN C A.

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Komatsoulis

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Best Local
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                                     cerebroprotective; nootropic; neuroprotective; antibacterial; virucide; fungicide; ophthalmological; gene therapy; autoimmune disease; neoplasm; rheumatoid arthritis; hyperproliferative disorder; cardiac arrest; cardiovascular disorder; cerebrovascular disorder; cerebral ischaemia;
  angiogenesis; nervous system disorder; Alzheimer's
ocular disorder; corneal infection; wound healing;
                                                                                                                                                                                                                                                                                                                                    AAB63204 standard; Protein; 167
                                                                                                                                  antirheumatic; antiproliferative; cytostatic;
                                                                                                                                                                                               Human secreted protein sequence encoded by gene 28 SEQ ID NO:130.
                                                                                                                                                                                                                                              26-MAR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 506-507; 533pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cerebroprotective; nootropic; neuroprotective; antibacterial; virucide;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAF22373 to AAF22421 encode the human secreted proteins given in to AAB63182. AAB63183 to AAB63231 represent more human secreted
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      kiflstfqseaepqsksqslsleslepnsgakpansaaengfqehev 167
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SSQQFRRVFVQVLCCRLSLQHANHEKRLRVHAHSTTDSARFVQRPLLFASRRQSSARRTE 406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in preventing, treating or ameliorating a medical condition
                                                                                                                                                   secreted protein; diagnosis; immunosuppressive; antiarthritic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleic acid molecule encoding a human secreted protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          36.5%; Score 852; DB 21; 100.0%; Pred. No. 1.2e-80;
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                                                                                                                                                                                                                                                                                                                                                                                                                                             aging due to sunburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities. AAF22364 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ischaemia, angiogenesis, nervous system disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection. The polypeptides can also be used t aid wound healing and epithelial cell proliferation, to prevent skin aid wound healing and epithelial cell proliferation, to prevent skin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and polypeptides homologous to them. Human secreted proteins have activities based on the tissues and cells the genes are expressed in Examples of activities include: immunosuppressive; antiarthritic;
                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fungicide; and ophthalmological. The polynucleotides and proteins can be used to prevent, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. They are
                                            407
                                                                                                                                                                                                                                                                                                                                                                                                                       AAF22372 and AAB63133 represent sequences used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cerebroprotective; nootropic; neuroprotective; antibacterial; virucide;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAF22373 to AAF22421 encode the human secreted proteins given in AAB63134 to AAB63182. AAB63183 to AAB63231 represent more human secreted proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 507-508; 533pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Isolated nucleic acid molecule encoding a human secreted protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             09-APR-1999; 99US-0128694.
20-JAN-2000; 2000US-0176931.
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121 kiflstfqseaepqsksqslsleslepnsgakpansaaengfqehev 167
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              food additive; preservative.
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                                                                                                                                                                                                                                                                                                                                                                                                     present invention.
                                                                                                                                                                   KIFLSTFQSEAEPQSKSQSLSLESLEPNSGAKPANSAAENGFQEHEV 453
                                                                               ssqqfrrvfvqvlccrlslqhanhekrlrvhahsttdsarfvqrpllfasrrqssarrte
                                                                                                     SSQQFRRVFVQVLCCRLSLQHANHEKRLRVHAHSTTDSARFVQRPLLFASRRQSSARRTE 406
                                                                                                                                                                                                                                                      167;
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                                                                                                                                                                                                                                                                                                                                                              AA;
                                                                                                                                                                                                                                                                        100.0%;
                                                                                                                                                                                                                                                                      36.5%; Score 852; DB 21; 100.0%; Pred. No. 1.2e-80;
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RESULT AAB75565

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Query Match
Matches 167;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection. The polypeptides can also be used to aid wound healing and epithelial cell proliferation, to prevent skin ageing due to sunburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             or diagnose various diseases and disorders including, autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. neoplasms of the breast or liver, cardiovascular disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              preventing, treating or ameliorating a disorder, e.g. Alzheimer's and Parkinson's diseases and cancers -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nootropic; neuroprotective; antibacterial; virucide; fungicide; opthalmalogical; vulnerary; autoimmune disease; cardiovascular disorder;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JUN-2000; 2000WO-US14973.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200077026-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           nervous system disorder; ocular disorder; skin ageing; chemotaxis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB75565 standard; Protein; 167 AA.
                                                                                                                                                                                                                                                                                                                                                     polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities. Included in the invention are polynucleotide sequences AAF64167 - AAF64175 and peptide AAB75505 which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 39; 542pp; English.
                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                 are used in the isolation, proteins of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (HUMA-) HUMAN GENOME SCI INC (ROSE/) ROSEN C A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hyperproliferative disorders; cerebrovascular disorder; wound healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         additive.
                                                                                                                                                                                                          167
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99US-0138630
                                                                                                                                                                                                          AΑ;
                                                                                                                                                                                                                                                                                                                       isolation,
                                     36.5%; Score 852; DB 22; 100.0%; Pred. No. 1.2e-80;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Komatsoulis GA;
                                                                                                                                                                                                                                                                                                                            identification and characterisation of the
0;
Mismatches
                                                                           Length 167;
    Indels
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AAB75566
                 e.g. neoplasms of the breast or liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemic angiogenesis, nervous system disorders e.g. Alzhehmer's disease, infections caused by bacteria, viruses and fungi and ocular disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antiproliferative; cytostatic; cardiant; vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial; virucide; fungicide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB75566 standard; Protein; 167
                                                                                              polynucleotides, agonists and antagonists can be used to treat or detect or diagnose various diseases and disorders including, autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders
                                                                                                                                                               expressed, examples of these activities include, immunosuppressive; antiarthritic; antirheumatic; antiprolliferative; cytostatic; cardiant; vasotropic, cerebroprotective, nootropic; neuroprotective; antibacterial; virucide; fungicide; opthalmalogical; and vulnerary. The proteins,
                                                                                                                                                                                                                                                                                        Human secreted proteins AAB75506 - AAB75554 are encoded by polynucleotide sequences AAF64176 - AAF64224. The specification includes amino acid sequences AAB75555 - AAB75606 which represent fragments of the human secreted proteins, and protein sequences with which they share homology.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-JUN-2000; 2000WO-US14973
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human secreted protein sequence encoded by gene 13 SEQ ID NO:120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB75566;
                                                                                                                                                                                                                                                  The proteins and polynucleotides, their agonists and antagonists have activities dependent on the tissues and cells in which they are
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleic acid molecules encoding human secreted proteins, used in preventing, treating or ameliorating a disorder, e.g. Alzheimer's and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-DEC-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200077026-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    opthalmalogical; vulnerary; autoimmune disease; cardiovascular disorder:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; secreted protein; immunosuppressive; antiarthritic; antirheumatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 39; 542pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N-PSDB; AAF64188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rosen CA, Ruben SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (HUMA-) HUMAN GENOME SCI INC (ROSE/) ROSEN C A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nervous system disorder; ocular disorder; skin ageing; chemotaxis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hyperproliferative disorders; cerebrovascular disorder; wound healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Parkinson's diseases and cancers -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121 kiflstfqseaepqsksqslsleslepnsgakpansaaengfqehev 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       287 LIVVTLAVCWMPNQIRRIMAAAKPKHDWTRSYFRAYMILLPFSETFFYLSSVINPLLYTV 346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SSQQFRRVFVQVLCCRLSLQHANHEKRLRVHAHSTTDSARFVQRPLLFASRRQSSARRTE 406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                {\tt livvtlavCwmpngirrimaaakpkhdwtrsyfraymillpfsetffylssvinpllytv}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2001-071258/08.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99US-0138630
The polypeptides can also be used to aid wound
                                                                 ischaemia
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corneal infection.

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AAR9USLSZ
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Best Local S
Matches 167
Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                    Claim 1; Page 20-21; 26pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                            DNA encoding human neurotensin receptor protein - useful for screening for (ant)agonists used to treat, e.g. Parkinson's disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 04-JUN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  neurotensin raceptor; antagonist; agonist; screening; treatment; ulcer; Parkinson's disease; depression; dementia; retrograde oseophagitis.
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                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                   depression, dementia, retrograde oesophagitis, ulcers, etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; AAT33127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1996-318958/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (TAKE ) TAKEDA CHEM IND LTD.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human neurotensin receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAR98562;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAR98562 standard; Protein; 418
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          347
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                                                                                                                                                                                                 present sequence is that of a human neurotensin receptor protein DNA (AAT33127) encoding it and the protein are useful for screen (ant)agonists used to treat Parkinson's disease, depression,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      თ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KIFLSTFQSEAEPQSKSQSLSLESLEPNSGAKPANSAAENGFQEHEV 453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              al Similarity
167; Conserv
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                                                                                                                                                                      retrograde
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                                                                                                                  418 AA;
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   20.2%;
                                                                                                                                                                            oseophagitis, ulcers,
   Score
Pred.
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No. 2.
   ; DB 17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                             useful for
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                              Length 418;
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                                                                                                                                                                                                                                     screening
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                      muscular contraction disorder; schizophrenia; analgesic; antipyretic.
                                                                                                                                                                                                                                                                                                                                                                  Human; neurotensin type 2 receptor; hNT-R2; treatment; hormonal;
neurological disorder; neurotensin; thermo-regulation disorder; stress;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAW66103 standard; Protein;
  N-PSDB;
  WPI; 1998-508932/44
N-PSDB; AAV07655.
                               Caput D, Chalon P,
                                                                         17-MAR-1997;
                                                                                                17-MAR-1997;
                                                                                                                    18-SEP-1998.
                                                                                                                                                                         Domain
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                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                 Human type 2 neurotensin receptor protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   138 CHPFRYKAVSGPCQVKLLIGFVWVTSALVALPLLFAMGTEYPLVNVPSHRGLTCNRSSTR 197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  330 sdeqwtpflydfyhyfymvtnalfyvsstinpilynlvsanfrhiflatlac 381
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297..315
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110..131
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155..1
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71..91
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                                 Ferrara P,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      muscular contraction disorders (especially in digestive tract smooth muscle), pain and (due to action on the dopaminergic system) neurological disorders such as schizophrenia, especially as analgesics
                                                                  Human; NT2LP; G-protein coupled receptor; neurotensin-2 receptor; NT2; drug screening; diagnosis; allelic screening; pharmacogenetic testing; forensic biology; chromosome mapping; tissue typing; primer; probe; pa
 Domain
             Key
                                                                                                                                         04-APR-2000
                                                                                                                                                                 AAY44580
                                                                                                                                                                                       AAY44580 standard; Protein; 410
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                                                                                                                                                                                                                                                                                                                                                                                                                                        148
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                                                                                                                                                                                                                                               371 eavs---slcgehhpmkrlppkpqspt 394
                                                                                                                                                                                                                                                                      357 QVLCCRLSLQHANHE-KRLRVHAHSTT 382
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                                                                                                                                                                                                                                                                                            lpyharrlmycyvpddawtdplynfyhyfymvtntlfyvssavtpllynavsssfrklfl
                                                                                                                                                                                                                                                                                                                   MPNQIRRIMAAAKPKHDWTRSYFRAYMILLPFSETFFYLSSVINPLLYTVSSQQFRRVFV
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                                                                                                                                                                                                                                                                                                                                                                  PPQLRKSESE-----
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                                                                                                                                                                                                                                                                                                                                                                                                               SICTNLSSRWTVFQSSI-FGAFVVYLVVLLSVAFM----CWNMMQVLMKSQKGSLAGGTR 262
                                                                                                                                                                                                                                                                                                                                                                                                                                    tprrtrwlvalswaaslglalpmavimgqkheletadg----
                                                                                                                                                                                                                                                                                                                                                                                                                                                    GPCQVKLLIGFVWVTSALVALPLLFAMGTEYPLVNVPSHRGLTCNRSSTRHHEQPETSNM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PMEFYSIIWNPLTTSSYTLSCKLHTFLFEACSYATLLHVLTLSFERYIAICHPFRYKAVS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                wakvlftalyaliwalgaagnalsvhv--vlkaragragrlrhhvlslalaglilllvgv 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WIKITLILYYLIIFYMGLLGNSATIRYTQYLQKKGYLQKEVTDHMVSLACSDILYFLIGM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              107;
                                                                                                                   NT2LP
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                                                                                                                                         (first entry)
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Location/Qualifiers 34..58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17.3%; Score 404; DB 19; 27.6%; Pred. No. 1.8e-33;
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                                                                                                                                                                                                                                                                       Similarity
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98US-0223492.
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                                                                                                                                                                                                                                                                       17.3%; 27.6%;
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The present protein sequence is the human G-protein coupled receptor, MT2LP which is expressed in brain and ovaries. NT2LP participates in signalling pathways in cells that express this protein and shows homoley to neurotensin-2 (NT2) receptors. This sequence can be used for drug screening, diagnosis, allelic screening, pharmacogenetic testing, forensic biology, chromosome mapping, tissue typing, detection of genetic alterations in NT2LP gene and as source of primers and probes. It has analgesic activity and can be used to treat disorders characterised by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New G-protein coupled receptor NT2LP used to treat diseases
                                                                251 psrlellseegllsfivwkktfiqggqvslvrhkdvrrirslqrsvqvlraivvmyvicw
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30 wakvlftalyaliwalgaagnalsvhv--vlkaragragrlrhhvlslalaglllllvgv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PMEFYSIIWNPLTTSSYTLSCKLHTFLFEACSYATLLHVLTLSFERYIAICHPFRYKAVS 147
MPNQIRRIMAAAKPKHDWTRSYFRAYMILLPFSETFFYLSSVINPLLYTVSSQQFRRVFV
                                                                                                                                                                                                                                                                                        SICTNLSSRWTVFQSSI-FGAFVVYLVVLLSVAFM----CWNMMQVLMKSQKGSLAGGTR
                                                                                                                                                                                                                                                                                                                                                                                                                                        GPCQVKLLIGFVWVTSALVALPLLFAMGTEYPLVNVPSHRGLTCNRSSTRHHEQPETSNM 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pvelysfvwfhypwvfgdlgcrgyyfvhelcayatvlsvaglsaerclavcqplrarsll
                                                                                                                                                                                                                rvctvlvsr-talqvfiqvnvlvsfvlplaltaflngvtvshllalcsqvpststpgsst
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                                                                                                                                                --ESRTARR-----QTIFLRLIVVTLAVCW
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                                                                                                                                                                                                                                                    dorant, cytomegaloviral and other G-protein coupled receptors. The eceptor proteins were used to design polypeptides, pref. based on the transmembrane domains, for use in G-protein coupled receptor ligand binding assays. The polypeptide fragments retain biological activity such as binding a GPR ligand or modulating GPR ligand binding to a GPR (see AAR8959-R48758, AAR50569-R50807 and AAR89189-R89195 for examples of polypeptide fragments. The polypeptide fragments can be used in compositions for treating subjects suffering from a pathology related to a GPR abnormality e.g. a psychotic disorder such as schizophrenia.
                                                                                                                                                                                                                                                                                                                                                                                         Proteins AAR48685-R48758 represent a range of G-protein coupled receptor proteins selected from cAMP, adenosine, muscarinic acetylcholine, adrenergic, thrombin, endothelin, bombesin, endocrine, rhodopsin, opsin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Polypeptides of G-coupled receptor proteins (GPRs) - useful for binding GPR ligands or modulating GPR binding
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 99-100; 160pp; English.
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                                                                                                                                                                                                                            Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (UYNY ) UNIV NEW YORK STATE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -protein coupled receptor; ligand binding assay; transmembrane domain; sychotic disorder; schizophrenia; dopamine; cAMP; adenosine; thrombin; muscarinic acetylcholine; adrenergic; endothelin; bombesin; endocrine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         357
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   147
                                57
                                                           88
                                                                                                                                                                   Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         QVLCCRLSLQHANHE-KRLRVHAHSTT 382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SGPCQVKLLIGFVWVTSALVALPLLFAMGTEYPLVNVPSHRGLTCNRSSTRHHEQPETSN 206
                                                       PMEFYSIIW-NPLTTSSYTLSCKLHTFLFEACSYATLLHVLTLSFERYIAICHPFRYKAV 146
                                                                                        KITLILVYLIIFVMGLLGNSATIRVTQVLQKKGY--LQKEVTDHMVSLACSDILVFLIGM 87
                                                                                                                                                     108;
                                                                                                                                                                                                                               353 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Schuster DI;
                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        92US-0943236
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                                                                                                                                                                   17.3%;
                                                                                                                                                     59;
                                                                                                                                                                   Score 403.5; DB 1
Pred. No. 1.6e-33;
                                                                                                                                                      Mismatches
                                                                                                                                                                                 DB 15; Length 353;
                                                                                                                                                      133;
                                                                                                                                                      Indels
                                                                                                                                                      45;
                                                                                                                                                     Gaps
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RESULT
AAW02696
Qγ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           G-protein coupled receptor; ligand binding assay; transmembrane domain; schizophrenia; dopamine; cAMP; adenosine; thrombin; adrenergic; opsin; muscarinic acetylcholine; endothelin; bombesin; endocrine; rhodopsin; odorant; cytomegalovirus; serotonergic.
                                         odorant, cytomegaloviral and other GPR proteins. The receptor protein were used to design polypeptides, pref. based on the transmembrane domains, for use in G-protein coupled receptor ligand binding assays. The polypeptide fragments retain biological activity such as binding a GPR ligand or modulating GPR ligand binding to a GPR (see AAW02747-W0299) for examples of polypeptide fragments). The polypeptid fragments of be used in compositions for treating subjects suffering from a pathology related to a GPR abnormality e.g. a psychotic disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           G-protein coupled rat neurotensin receptor
                                                                                                                                                             proteins AAW02657-W02730 represent a range of G-protein coupled receptor (GPR) proteins selected from CAMP, ademosine, muscarinic acetylcholine, adrenergic, thrombin, endothelin, bombesin, endocrine, rhodopsin, opsin, odorant, cytomegaloviral and other GPR proteins. The receptor proteins
                                                                                                                                                                                                                                                                                                                                                                                                                    09-SEP-1993;
10-SEP-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rattus rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAW02696;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAW02696 standard;
                                                                                                                                                                                                                                         Disclosure; Column 117-120; 184pp; English
                                                                                                                                                                                                                                                                      New dopamine receptor peptide - useful as antipsychotic agent, for treating schizophrenia
                                                                                                                                                                                                                                                                                                                        WPI; 1996-208785/21.
                                                                                                                                                                                                                                                                                                                                                        Murphy RB,
                                                                                                                                                                                                                                                                                                                                                                                    (UYNY ) UNIV NEW YORK STATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-SEP-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-APR-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US5508384-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  114
Sequence
                               such as schizophrenia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       215
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  msrsrtkkfisaiwlasallaipmlftlglq----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SYFRAYMILLPESETFEYLSSVINPLLYTVSSQQFRRVFVQVLCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   thnglehstfnmriepgrvqalrhgvlvlravviafvvcwlp-----ylcyisdeqwrt 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RPPQLRKS----ESEESRT-ARRQTIIFLRLIVVTLAVCWMPNQIRRIMAAAKPKHDWTR 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MSICTNLSSRWT---VFQSSIFGAFVVYLVVLLSVAFMCWNMMQVLM--KSQKGSLAGGT 261
 353 AA;
                                                                                                                                                                                                                                                                                                                                                        Schuster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                    93US-0118270.
92US-0943236.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      92US-0943236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         peptide;
                                                                                                                                                                                                                                                                                                                                                        DI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            353
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                                                                                   The polypeptide
                                                                                                                                                                                                                                                                                            e.g.
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Query Match Best Local Similarity Matches 108;

17.3%; Score 403.5; DB 17; 31.3%; Pred. No. 1.6e-33;

Conservative

59;

Mismatches

Indels

Gaps

12;

Length

353; 45;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; neurotensin receptor type 2; infection; bacterial; protozoan; fungal; viral; HIV-1; HIV-2; cancer; anorexia; bulimia; asthma; acute heart failure; Parkinson's disease; hypotension; hypertension; urinary retention; osteoporosis; angina pectoris; myocardial infarction; ulcer; allergy; benign prostatic hypertrophy; anxiety; schizophrenia; psychotic; neurological disorder; manic depression; delirium; dementia; severe mental retardation; dyskinesias; Huntington's disease;
The present sequence represents human neurotensin receptor type 2 (hNR). hNR polypeptides and polynuclectides are useful for diagnosing diseases related to over or underexpression of hNR protein by identifying mutations in the hNR gene using hNR probes, or determining hNR protein or mRNA expression levels. hNR polypeptides are also useful for screening for compounds which affect activity of the protein. These compounds can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human neurotensin receptor type 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-JAN-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAW80598 standard; Protein;
                                                                                                                                                                       New human neurotensin receptor type 2 polypeptide and polynucleotide - useful as diagnostic reagents and for treating e.g. HIV infection,
                                                                                                                                                                                                                                                                                Bergsma DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                         EP875568-A1
                                                                                                                       Claim 11; Page 7-8; 26pp; English.
                                                                                                                                                          cancer and osteoporosis
                                                                                                                                                                                                                               N-PSDB; AAV62449.
                                                                                                                                                                                                                                               WPI; 1998-559434/48.
                                                                                                                                                                                                                                                                                                               (SMIK ) SMITHKLINE BEECHAM CORP.
                                                                                                                                                                                                                                                                                                                                                   02-APR-1997;
                                                                                                                                                                                                                                                                                                                                                                                    01-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                       04-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               269 flfdfyhyfymltnalfyvssainpilynlvsanfrqvflstlac 313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               317 SYFRAYMILLPESETFFYLSSVINPLLYTVSSQQFRRVFVQVLCC 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                215 thnglehstfnmriepgrvqalrhgvlvlravviafvvcwlp-----ylcyisdeqwrt 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    262 RPPQLRKS----ESEESRT-ARRQTIIFLRLIVVTLAVCWMPNQIRRIMAAAKPKHDWTR 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     155 glvctpivdtatvkvviqvntfmsflfpmlvisilntviankltvmvhqaaeqgrvctvg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          114 msrsrtkkfisaiwlasallaipmlftlglq------nrsgdgth----pg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SGPCQVKLLIGFVWVTSALVALPLLFAMGTEYPLVNVPSHRGLTCNRSSTRHHEQPETSN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            de la Tourette's syndrome
                                                                                                                                                                                                                                                                                Shabon U;
                                                                                                                                                                                                                                                                                                                                                   97US-0832399
                                                                                                                                                                                                                                                                                                                                                                                    98EP-0302536
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and antibodies are useful for inducing an immune response to prevent and and antibodies are useful for inducing an immune response to prevent and treated disease, and isolating clones or purifying polypeptides by affinity chromatography. Diseases prevented, diagnosed and treated include: HIV-1 or HIV-2 infections; pain; cancers; anorexia; bulimia; asthma; acute heart failure; Parkinson's disease; hypotension; hypertension; urinary retention; osteoporosis; angina pectoris; myocardial infarction; ulcers; allergias; benign prostatic hypertrophy; and psychotic and neurological disorders, including anxiety, schizophrenia, manic depression, delirium, dementia, severe mental retardation and dyskinesias, such as Huntington's disease or Gilles de la Tourette's syndrome. The hNR polypeptides are also useful for mapping the gene to a chromosome, allowing gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     be used for treatment to inhibit (antagonist) or enhance (agonist) hNR activity, in addition to direct administration of hNR polypeptides to treat conditions associated with a lack of hNR protein or direct administration of antisense sequences to prevent expression. Gene therapy may also be used to affect endogenous hNR polypeptide production Vaccines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      comprising hNR polypeptides can be used for
04-FEB-2000; 2000JP-0032773
24-FEB-2000; 2000JP-0052252
                                                                                                                                                                                                                           TGR-1; neuromedin U; hypertension; stress disease.
                                                                                                                                                                                                                                                                                                                                                                                           AAG63367 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     inheritance to be studied through linkage analysis.
                                                          02-FEB-2001; 2001WO-JP00746
                                                                                                   09-AUG-2001
                                                                                                                                          WO200157524-A1
                                                                                                                                                                                 Rattus sp.
                                                                                                                                                                                                                                                                  Amino acid sequence of a rat TGR-1 protein.
                                                                                                                                                                                                                                                                                                           15-OCT-2001
                                                                                                                                                                                                                                                                                                                                                      AAG63367;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  192
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28 WIKITLILVYLIIFVMGLLGNSATIRVTQVLQKKGYLQKEVTDHMVSLACSDILVFLIGM 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GPCQVKLLIGFVWVTSALVALPLLFAMGTEYPLVNVPSHRGLTCNRSSTRHHEQPETSNM 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vtntlfyvssavtpllynavsssfrklfleavs---slcgehhpmkrlppkpqspt 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FSETFFYLSSVINPLLYTVSSQQFRRVFVQVLCCRLSLQHANHE-KRLRVHAHSTT 382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KSESEESRTARRQTIIFLRLIVVTLAVCWMPNQIRRIMAAAKPKHDWTRSYFRAYMILLP 327
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tprrtrwlvalswaaslglalpmavimgqkheletadg-----epepas- 191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pvelysfvwfhypwvfrdlgcrgyyfvhelcayatvlsvaglsaerclavcqplrarsll 147
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        93;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              319 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                              Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15.9%;
26.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                --eaivvmyvicwlpyharrlmycyvpddawtdplynfyhyfym
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        57; Mismatches 123;
                                                                                                                                                                                                                                                                                                                                                                                                395
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 370.5;
                                                                                                                                                                                                                                                                                                                                                                                                8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 19; Length 319;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            inoculation against diseases,
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                         neuromedin U; obesity; depression; anxiety; compulsion; neuroses; insomnia; sleep disorder; substance abuse; pain; neuroprotective; cognitive disorder; memory enhancement; Alzheimer's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Identifying predicted or actual structures of two or more members of chemical or physical library by mass spectrometry comprising correlating molecular mass measurements of two or more members with a
antiaddictive; analgesic
             GHSR-R antagonist; anorectic; nootropic; antidepressant; tranquilizer;
                                                                                                                                                                                                   AAY44641 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  shared chemical history
                                                                                                                                          18-APR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGR-1 antagonists are also useful for treating the same diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence represents a rat TGR-1 protein. The specification escribes a method of screening a compound, which is capable of binding properties of neuromedin U to TGR-1. The method is useful for screening preventatives and remedies for hypertension, stress diseases, etc...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-PSDB;
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19-JUN-2000;
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                                                                                                                                                                                                                                                                                                    YFRAYMILLPFSETFFYLSSVINPLLYTVSSQQFRRVFVQVLCCRLSLQHANHE 371
                                                                                                                                                                                                                                                                                                                                                            LRKSESEES-----RTARRQTIIFLRLIVVTLAVCWMPNQIRRIMAAAKPKHDWTRS
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                                                                  growth hormone secretagogue related receptor; GHSR-R;
GHSR-R gene; ligand; agonist; antagonist; GHSR-R agonist;
                                                                                                              growth hormone secretagogue related receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ) TAKEDA CHEM IND LTD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          395 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Shintani Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                          (first entry)
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2000JP-0187536.
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                                                                                                                                                                                                   Protein;
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27.1%;
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                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                     The present sequence is mouse growth hormone secretagogue related receptor (GHSR-R). This exhibits 73% identity with human GHSR-R. GHSR-R is useful for identifying ligands, agonist or antagonist which binds to it. A GHSR-R agonist or neuromedin U is used in the treatment of it. A GHSR-R agonist or neuromedin U is used in the treatment of obesity, depression, anxiety, compulsion, neuroses, insommia/sleep disorders, substance abuse, pain, neuroprotective and cognitive disorder and memory enhancement including Alzheimer's disease. GHSR-R antagonist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 3; Fig 1; 50pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New receptors useful for identifying agonist and antagonist treating or preventing obesity, anxiety, neuroses, insomnia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Domain
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                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                         is useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (MERI ) MERCK & CO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13-JUL-1999;
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                                                                                                                                                                                                                                                                                        Local
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                                                                                                                             CQVKLLIGFVWVTSALVALPLLFAMGTEYPLVNVPSHRGLTCNRSSTRHHEQPETSNMSI 209
                                                                                                                                                                      FYSIIWN-PLITSSYTLSCKLHTFLFEACSYATLLHVLTLSFERVIAICHPERVKAVSGP 149
           KSQKGSLAGGTRPPQLRKSESEESRTARRQTIIFLRLIVVTLAVCWMPNQIRRIMAAAKP
                                         c-----slvgpmdfyklvvlttallffclpmvtisvlylliglrlrrermllq
                                                                      CTNLSSRWTVFQSSIFGAFVVYLVVLLSVA--FMCWNMMQV-----
                                                                                                 ahvrrmvgaiwvlatlfslpntslhglsq--ltvpc-rg-------
                                                                                                                                                        lyemqqnypfqlga--sacyfrillletvclasvlnvtalsveryvavvrplqaksvmtr
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DB; AAZ49706.
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158..176
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /label= Transmembrane_helix_6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /label=
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                                                                                                                                                                                                                                                                                    15.6%;
29.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  obesity, anxiety, neuroses,
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                                                                                                                                                                                                                                                                            Score 363; Ub ...
No. 3.3e-29;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           07-JUN-2001.
                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                  treatment and prevention of stress, hypertension and also as an appetite
                                                                                                                                                                                                                                                                                                 its salts. The present sequence is the protein sequence for murine FM-3, which was used in the method of the present invention. The compounds
                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Page 78-79; 92pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                             Method for screening for compounds that alter binding between neuromedin U and FM-3 useful for treatment of stress, hyperte
                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; AAH45073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hinuma S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (TAKE ) TAKEDA CHEM IND LTD
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24-FEB-2000; 2000JP-0052251
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             hypertension;
                                                                                                                                                                                                                                                                                    found using the method of the present invention are useful for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      durine FM-3
                                                                                                                                                                                                                                                                                                                             the present invention relates to a method for screening for compounds that alter binding between neuromedin U and its derivatives to FM-3 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           furine; FM-3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361 pyhgshn----hirlttgs 375
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8
                                                                                                                            31 ITLILVYLIIFVMGLLGNSATIRVTQVLQKKGYLQKEVTDHMVSLACSDILVFLIGMPME
                                                                                                                                                                     Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                               regulating appetite
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CQVKLLIGFVWYTSALVALPLLFAMGTEYPLVNVPSHRGLTCNRSSTRHHEQPETSNMSI 209
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2001-374952/39.
                                         lyemqqnypfqlga--sacyfrillletvclasvlnvtalsveryvavvrplqaksvmtr 152
                                                                                                 vpicvtyllifvvgtlgnglt--ctvilrnk-tmrtptnfylfslavsdmlvllvglple
                                                                      FYSIIWN-PLTTSSYTLSCKLHTFLFEACSYATLLHVLTLSFERYIAICHPFRYKAVSGP 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hosoya M,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Protein;
                                                                                                                                                                   15.6%; Score 363; DB 22; 29.2%; Pred. No. 3.3e-29;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             멍
DЪ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                nervous system disorder; psychiatric disorder; Parkinson's disease; episodic paroxysmal anxiety; phobia; migraine; epilepsy; bulimia; stroke; eardiovascular disease; heart failure; angina pectoris; obesity; emesis; motility disorder; myocardial infarction; hypertension; dyslipidemia; gastrointestinal disorder; inflammatory bowel disease; osteoporosis; inflammation; infection; pain; cancer; immune disorder; allergy; sepsis;
           The present sequence represents the short version of a human G-protein coupled receptor designated IGS4A. IGS4 exists in two polymorphic forms, IGS4A and IGS4B. The IGS4 receptors and IGS4 polynucleotides are useful for preventing, ameliorating or correcting dysfunctions or diseases. These diseases include peripheral nervous system, psychiatric and centra nervous system disorders (e.g. schizophrenia, episodic paroxysmal anxiety, phobia, Parkinson's disease, migraine, epilepsy, bulimia or anxiety, phobia, Parkinson's disease, migraine, epilepsy, bulimia or
                                                                                                                                                                                                             New G-protein coupled receptors and the polynucleotides encoding them, useful for preventing, ameliorating or correcting nervous system disorders, cardiovascular diseases, dyslipidemias, inflammations, pain
                                                                                                                                                                                                                                                                                     WPI; 2001-273568/28.
N-PSDB; AAF80323.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB67803;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAB67803 standard; Protein; 412
                                                                                                                                                            Claim 18; Page 81-82; 102pp; English.
                                                                                                                                                                                                                                                                                                                                             Deleersnijder W,
                                                                                                                                                                                                                                                                                                                                                                                                                                24-SEP-1999;
28-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-SEP-2000; 2000WO-EP09584.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200125269-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gynecological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; G-protein coupled receptor; IGS4; IGS4A; IGS4B; schizophrenia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Amino acid sequence of G-protein coupled receptor IGS4A short version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                             (SOLV ) SOLVAY PHARM BV.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               251 KSQKGSLAGGTRPPQLRKSESEESRTARRQTIIFLRLIVVTLAVCWMPNQIRRIMAAAKP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           vevkgrktaatqetshrriqlqd--rgrrqvtkmlfalvvvfgicwapfhadrimwslvy 301
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ghs-teglhlayqcvhiasgiffylgsaanpvlyslmstrfretflqalglgtqcchrrq 360
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTNLSSRWTVFQSSIFGAFVVYLVVLLSVA--FMCWNMMQV-----
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2000US-0222047
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stroke), cardiovascular diseases (e.g. heart

failure,

central

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AAY1296
ID AAY7
XX
AY7
AC
DT 02-N
XW Huma
XX
Huma
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Homo
OS Homo
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PR 26-F
PR 12-M
PR 28-M
PR 28-M
PR 28-M
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Best Local S
Matches 97
                                   16-FEB-1999;
26-FEB-1999;
12-MAR-1999;
12-MAR-1999;
28-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    myocardial infarction or hypertension), dyslipidemias, obesity, emesis, gastrointestinal disorders (e.g. inflammatory bowel disease or motility disorders), osteoporosis, inflammations, infections (e.g. bacterial, fungal, protozoan or viral), pain, cancers, immune disorders, allergies, sepsis or gynecological disorders. Agonists or antagonists of IGS4 are effective with regard to disorders of the nervous system, including the central and peripheral nervous systems, disorders of the gastrointestinal system, cardiovascular system, skeletal muscle, thyroid, lung or genitourinary system, or immunological disease. The IGS4 polynucleotides are useful as diagnostic reagents for detecting under-expression, overexpression or altered expression of IGS4.
                                                                                                                                                                                                                                               WO200031258-A2
                                                                                                                                                                                                                                                                                                                     Human; orphan G protein-coupled receptor; GPCR; hRUP6; drug screening; transmembrane receptor; signal cascade.
                                                                                                                                                                                                                                                                                                                                                                            Human orphan G protein-coupled receptor hRUP6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAY71296 standard; Protein; 415
                                                                                                                                 20-NOV-1998;
                                                                                                                                                                      13-OCT-1999;
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                                                                                                                                                                                                           02-JUN-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      35 LVYLIIFVMGLLGNSATIRVTQVLQKKGYLQKEVTDHMVSLACSDILVFLIGMPMEFYSI 94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   vikpmwiynfiiqvt---sflfyllp-mtvisvlyylmalrlkkdkslead-----e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sgvffylssavnpilynllsrrfqaafqnvissfhkqwhsqhdpql 354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SETFFYLSSVINPLLYTVSSQQFRRVFVQVLCCRLSLQHANHEKRL 374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gnaniqrpcrksvnkmlfvlvlvfaicwapfhidrlffsf--veewseslaavfnlvhvv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SESEESRTARRQTIIFLRLIVVTLAVCWMPNQIRRIMAAAKPKHDWTRSYFRAYMILLPF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NLSSRWT----VFQSSIFGAFVVYLVVLLSVAFMCWNMMQVLMKSQKGSLAGGTRPPQLRK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ilgivwgfsvlfslp-----ntsih-----gikfhyfpngslvpgsatct
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mwrnypflfgpvgcyfktalfetvcfasilsittvsveryvailhpfraklqstrrralr 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IWNPLTTSSYTLSCKLHTELFEACSYATLLHVLTLSFERYIAICHPFRYKAVSGPCQVKL 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 Similarity
97; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
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99US-0123949.
99US-0136436.
99US-0136437.
99US-0136439.
                                                                        98US-0109213.
99US-0120416.
99US-0121852.
99US-0123946.
                                                                                                                                                                    99WO-US23687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15.6%; Score 363; DB 22; Length 412; 28.0%; Pred. No. 3.4e-29; Live 67; Mismatches 138; Indels 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           44;
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28-MAY-1999;
28-MAY-1999;
29-JUN-1999;
29-SEP-1999;
29-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present amino acid sequence is the hRUP6, an endogenous human orphan G protein-coupled receptor (GPCR). The full length hRUP6 cDNA was cloned by RT-PCR using human thymus cDNA as template. The orphan GPCR of the invention, like all GPCRs has seven transmembrane alpha helices with an extracellular N-terminus and an intracellular C-terminus. However, no endogenous ligands has yet been identified for the proteins of the invention. The orphan GPCRs may be used in the identification of their endogenous ligands, and to screen potential GPCR agonists and antagonists for use as pharmaceutical agents. The proteins may also be used in the study of GPCR-mediated signalling cascades, and to elucidate their precise role in normal and diseased human conditions. Nucleic acid encoding human orphan GPCRs may be used for tissue localisation expression analysis to provide information about their in healthy and nathological states.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel human orphan G protein-coupled receptors and the encoding cDNAs for use in the identification of G protein-coupled receptor agonists
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-SEP-1999;
29-SEP-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    function in healthy and pathological states.
                                 329 SETFFYLSSVINPLLYTVSSQQFRRVFVQVLCCRLSLQHANHEKRL 374
                                                                    254 gnaniqrpcrksvnkmlfvlvlvfaicwapfhidrlffsf--veewseslaavfnlvhvv 311
                                                                                                                                                                                                                                                                                  106 mwrnypflfgpvgcyfktalfetvcfasilsittvsveryvailhpfraklqstrrralr 165
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                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
sgvffylssavnpiiynllsrrfqaafqnvissfhkqwhsqhdpql 357
                                                                                                       SESEESRTARRQTIIFLRLIVVTLAVCWMPNQIRRIMAAAKPKHDWTRSYFRAYMILLPF
                                                                                                                                         vikpmwiynfiiqvt---sflfyllp-mtvisvlyylmalrlkkdkslead-----e
                                                                                                                                                                          NLSSRWT----VFQSSIFGAFVVYLVVLLSVAFMCWNMMQVLMKSQKGSLAGGTRPPQLRK 268
                                                                                                                                                                                                             ilgivwgfsvlfslp---
                                                                                                                                                                                                                                                 LIGFVWVTSALVALPLLFAMGTEYPLVNVPSHRGLTCNRSSTRHHEQPETS---NMSICT 211
                                                                                                                                                                                                                                                                                                                     IWNPLTTSSYTLSCKLHTFLFEACSYATLLHVLTLSFERYIAICHPFRYKAVSGPCQVKL 154
                                                                                                                                                                                                                                                                                                                                                     vvyvpifvvgvign---vlvclvilqhqamktptnyylfslavsdllvlllgmplevye- 105
                                                                                                                                                                                                                                                                                                                                                                         2000-400068/34.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    415 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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990S-0137131
990S-0137131
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990S-0156635
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28.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                           67; Mismatches 138; Indels 44;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 363; DB 21;
Pred. No. 3.4e-29;
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                                                                                                                                                                                                             --ntsih-----gikfhyfpngslvpgsatct 205
                                                                                                                                                                                                                                                                                                     DB 21;
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                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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Search completed: January 8, 2002, 23:03:24 Job time: 2374 sec

